MEMORANDUM

October 19, 2010

TO:

Transportation, Infrastructure, Energy and Environment Committee

Public Safety Committee

FROM:

Glenn Orlin, Deputy Council Staff Director

SUBJECT:

Update—pedestrian safety programs

Councilmember Ervin has requested that the T&E and PS Committees meet jointly to review progress on the County's pedestrians safety program (©1-2). On October 12 the program was reviewed by CountyStat; for background, the presentation materials are attached on ©3-41.

The following Executive Branch staff will attend this worksession to present the briefing and answer questions:

Art Holmes, Director, Department of Transportation Al Roshdieh, Deputy Director, DOT Emil Wolanin, Chief, Division of Traffic Engineering and Operations, DOT Jeff Dunckel, Pedestrian Safety Coordinator, DOT Captain Thomas Didone, Department of Police



MONTGOMERY COUNTY COUNCIL ROCKVILLE, MARYLAND

VALERIE ERVIN COUNCILMEMBER DISTRICT 5

Memorandum

June 8, 2010

To: Council President Nancy Floreen, T&E Committee Chair

Councilmember Phil Andrews, Public Safety Committee Chair

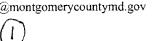
Re: Request for Status Update on Pedestrian Safety Programs

As you know, the County implemented the 2007 Pedestrian Safety Initiative in response to the 2002 Blue Ribbon Panel on Pedestrian and Traffic Safety. The goal of this initiative is to ensure that the County's most vulnerable roadway users receive as much attention as drivers by creating safe, walkable communities in Montgomery County. This initiative approaches pedestrian safety issues comprehensively by conducting an overall analysis of where the County is today and identifying the direction that the County needs for the future.

To accomplish the mission of the Pedestrian Safety Initiative, the County focuses on the three essential components of pedestrian safety: education, engineering and enforcement. Living in and representing District 5, which has a high number of pedestrian-related traffic incidents, I know that the County's initiatives on speed enforcement, outreach and education, especially for children and non-English speaking residents, are critical to improving safety.

Further, I realize that it is imperative that the County continue to encourage and create an environment where alternate modes of transportation are safe and accessible. Improving pedestrian access and infrastructure fits within many of the County's goals. It can enhance mobility, improve public health, promote a sense of place, improve quality of life, reduce vehicle trips, and help to offset environmental impacts by increasing pedestrian routes to mass transit.

I have been proud to serve as the Council's representative on the County's Pedestrian and Traffic Safety Advisory Committee (PTSAC). At a recent PTSAC meeting, the Committee discussed the potential for an annual Council review of pedestrian safety expenditures, the implementation of strategies, and progress towards the objectives of the Pedestrian Safety Initiative. While the County publicly engages in progress reports on pedestrian safety in CountyStat meetings, there is no existing comprehensive public review before the Council. I believe it would be in the County's interest for the Council to start reviewing the status of pedestrian safety efforts each fall, so that discussions can begin early in the budget process.



In this respect, I would like to request a joint Transportation, Infrastructure, Energy and Environment (T&E) Committee and Public Safety Committee meeting on pedestrian safety. Specifically, I would like the joint T&E/PS Committee to take up progress on the County's pedestrian safety efforts, including:

- Agency expenditures on pedestrian safety efforts;
- Targeted improvements in High Incident Areas (HIA);
- Public outreach and education efforts;
- Enforcement actions:
- Coordination with the State Highway Administration (SHA), the Washington Metropolitan Area Transit Authority (WMATA), and utility providers in implementing pedestrian safety improvements;
- Emphasis on pedestrian and bicycle safety in the planning process;
- Improvements in pedestrian and bicycle connectivity;
- Impacts on reducing pedestrian injuries and fatalities; and
- Future direction of the Pedestrian Safety Initiative.

Thank you in advance for your consideration of this matter. Please let me know how soon any action can be taken. If you have any questions regarding this request, please contact my office at 240-777-7960.

Sincerely,

Valerie Ervin

Councilmember - District 5

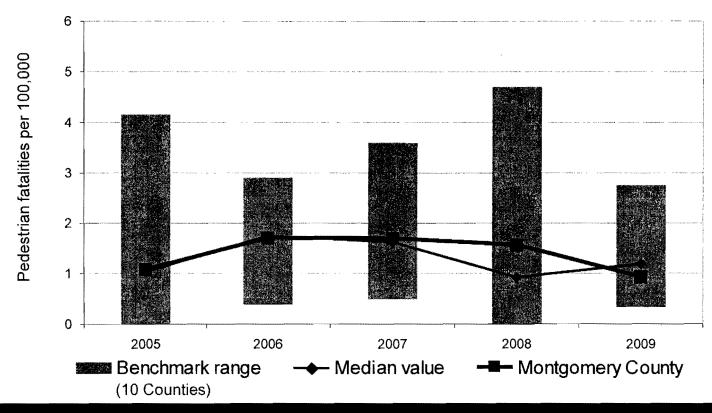
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c: Councilmembers

Timothy Firestine, Chief Administrative Officer
Tom Street, Assistant Chief Administrative Officer
Esther Bowring, Public Information Officer, Public Information Office
Arthur Holmes, Jr., Director, Department of Transportation
Jeff Dunckel, Pedestrian Safety Coordinator, Department of Transportation
Chief J. Thomas Manger, Montgomery County Police Department
Chief Richard Bowers, Mongomery County Fire and Rescue Service
Sarah Navid, Plan Reviewer, Department of Permitting Services
Anyesha Mookherjee, Traffic Team Leader, District 3, State Highway Administration
Glenn Orlin, Council Staff
Erwin Mack, Chair, Pedestrian and Traffic Safety Advisory Committee

Safe Street and Secure Neighborhoods

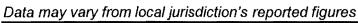
Indicator: Pedestrian fatality rate per 100,000 population



In 2009, the median pedestrian fatality rate was 1.19 fatalities per 100,000 people. Montgomery County's rate was .93. In 2009, the highest value was 2.76 and the lowest value was 0.3.

4

Source: National Highway Traffic Safety Administration: Fatality Analysis Reporting System



Pedestrian Safety #7



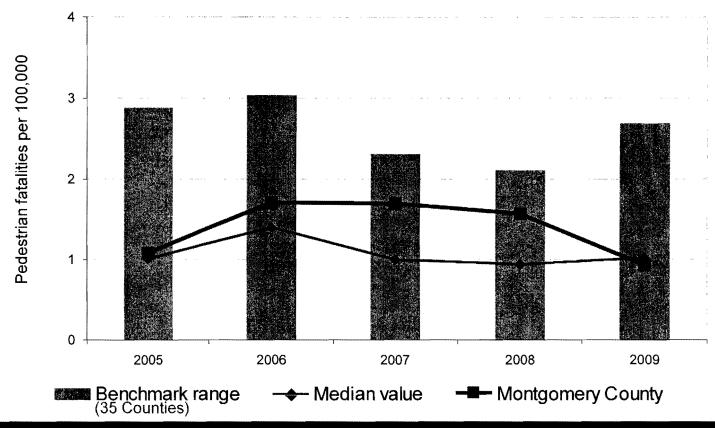




National Benchmark

Safe Street and Secure Neighborhoods

Indicator: Pedestrian fatality rate per 100,000 population



In 2009, the median pedestrian fatality rate was 1.02 fatalities per 100,000 people. Montgomery County's rate was .93. In 2009, the highest value was 2.69 and the lowest value was 0.0.

Source: National Highway Traffic Safety Administration: Fatality Analysis Reporting System



Data may vary from local jurisdiction's reported figures

Montgomery County Pedestrian Collisions and Fatalities

	2004	2005	2006	2007	2008	2009	2010*
January	21	36	31	32	48	34	35
February	30	28	28	33	30	37	38
March	36	37	28	34	37	31	34
April	32	26	25	35	34	28	33
May	39	27	36	34	47	46	33
June	33	41	33	29	24	41	33
July	33	24	29	20	37	36	31
August	24	28	37	26	36	32	22
September	31	39	39	38	35	30	36
October	46	48	42	37	31	41	
November	52	48	49	60	38	46	N/A
December	43	52	52	34	47	52	
Total Collisions	420	434	429	41275	444	454	295
Per 100,000	45.6	46.7	45.9	43.8	46.6	46.8	N/A
Total Fatalities	14	10)-	/* 18	17	19	14	N/A
Per 100,000	1.5	1.1	1.9	1.8	2.0	1.4	1 1 1 / / /

Source: Population estimates based on US Census data

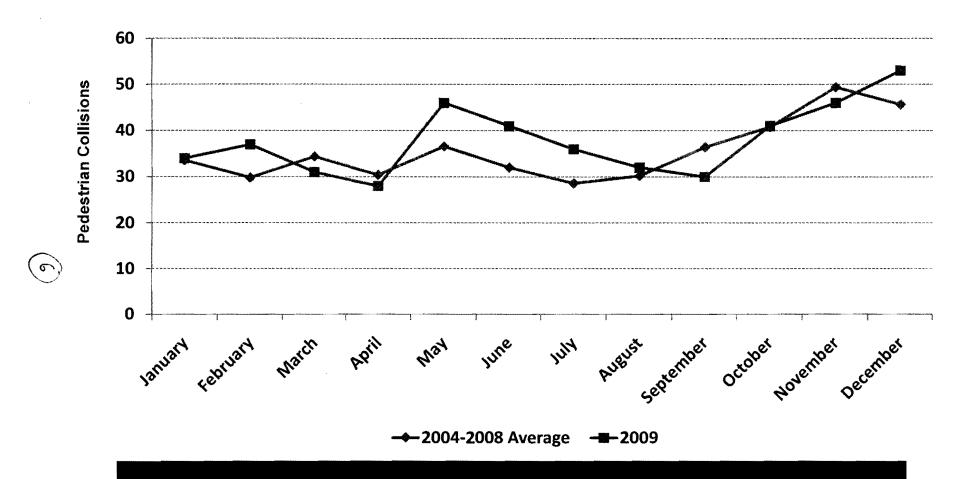


^{* 2010} data is preliminary and not included in this analysis

Pedestrian Safety #7 6 10/12/2010



Montgomery County Pedestrian Collisions



MCPD Reflections: Overall, the monthly trend in collisions is consistent with the overall average trend.



CountyStat

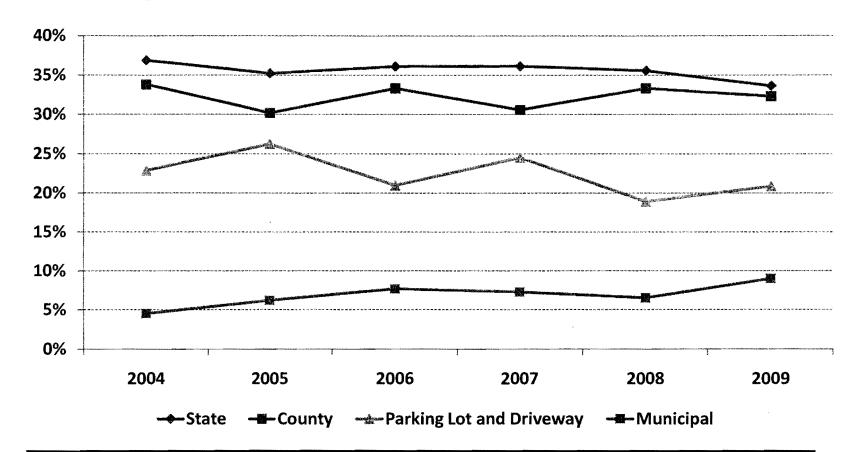
Pedestrian Collisions by Controlling Jurisdiction

Controlling Jurisdiction	2004	2005	2006	2007	2008	2009
State	155	153	155	149	158	153
County	142	131	143	126	148	146
Parking Lot/ Driveway	96	114	90	101	84	95
Municipal	19	27	33	30	29	41
All other	8	9	8	6	25	19
Total Number _	420	434	429	412	444	Å 54





Percentage of Pedestrian Collisions by Controlling Jurisdiction



MCPD Reflections: The percentage of pedestrian collisions by controlling jurisdictions is consistent over time and location type.



Strategies to Address Geographic Trends: Parking Lots

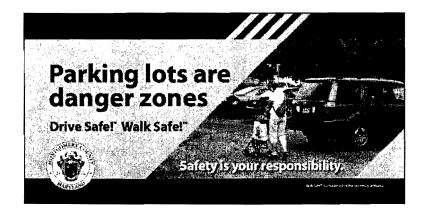
"Parking Lots are Danger Zones!" campaign kicked off on October 29th 2009

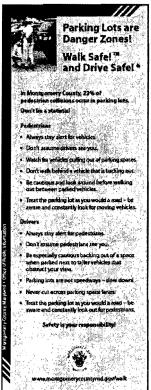
The state of the s

- Outfitted 40 Ride On buses with exterior ads and 200 with interior ads
- Created movie slides shown prior to movie previews in the theater
- Distributed flyers to senior centers, grocery stores, and apartment buildings
- Held press event that gathered widespread media attention
- Conducted informal focus groups with seniors to learn more about their perceptions of parking lot safety







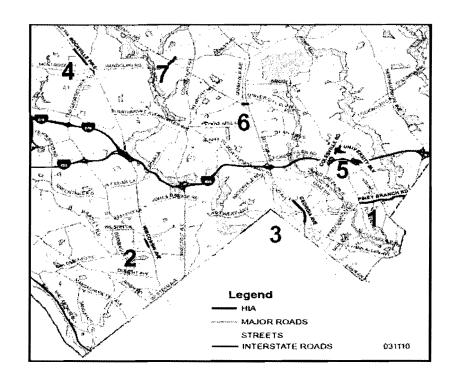


Parking Lot Pedestrian Safety Flyer



Signage Example

- Targets funding for engineering, education, and enforcement (the 3 Es) where it can have the greatest effect on reducing pedestrian collisions
- The highest rate of pedestrian collisions is along State roads, so this strategy engages the State in targeting pedestrian safety activities within the County where the rate of collisions and severity are highest
- Creates opportunities to leverage multiple projects in target areas with cost-sharing between multiple agencies



- 1. Piney Branch Rd
- 2. Wisconsin Ave
- 3. Georgia Ave

- 4. Rockville Pike
- 5. Four Corners
- 6. Reedie Dr
- 7. Randolph Rd



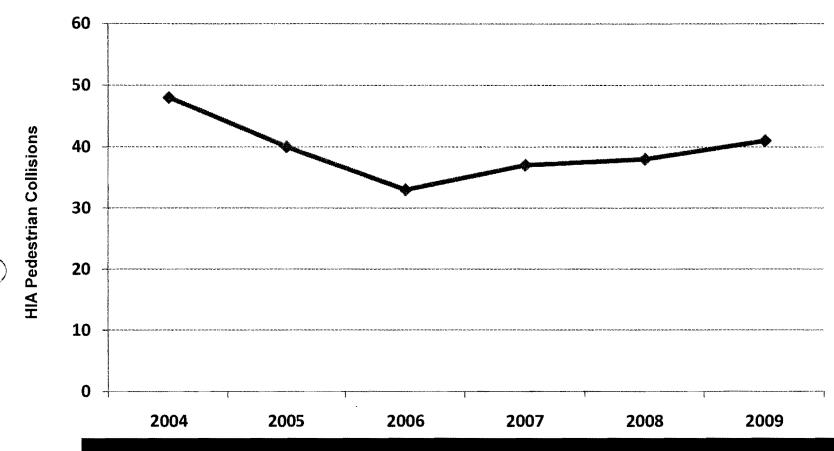
Collisions in High Incidence Areas

High Incidence	Date of		Number of Pedestrian Collisions						
Area	PRSA Audit	2004	2005	2006	2007	2008	2009	TÖTAL	
Piney Branch	Oct 2008	14	10	10	8	7	8	57	
Wisconsin Ave	Dec 2008	8	6	6	10	3	4	37	
Georgia Ave	Mar 2009	13	4	7	5	7	10	46	
Rockville Pike	June 2009	4	11	4	3	9	8	39 %	
Four Corners	Jan 2010	2	4	4	7	5	0	22	
Reedie Drive	Apr 2010	4	2	0	3	3	7	19	
Randolph Road	Sep 2010	3	3	2	1	4	4	17	
Total		48	. 40	33	37	38	41		

Currently, improvements are not completed in many of the High Incidence Areas



Collisions in High Incidence Areas: Annual Trend



DOT Reflections: The majority of the improvements are just now entering the implementation phase making it difficult to render a definitive conclusion of the impact of HIA improvements.



High Incidence Areas: Piney Branch Road

Background

- 1st HIA: Piney Branch Road from Flower Avenue to the Prince George's County/Montgomery County line
- PRSA conducted in Oct. 2008.

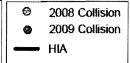
Observations

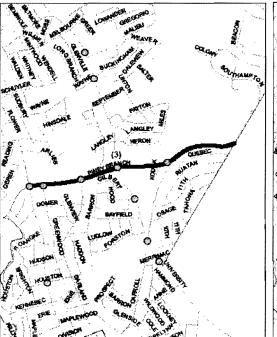
- Many mid-block crossings
- Pedestrian at fault in most crashes
- Limited roadway lighting
- Narrow sidewalks

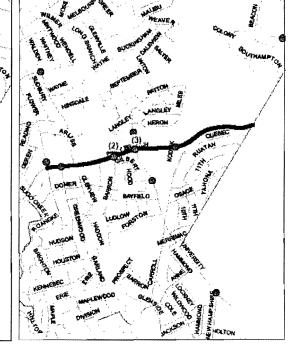




2008 and 2009 Pedestrian Collision Comparison In and Around the Piney Branch HIA







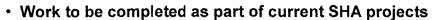
2004	2005	2006	2007	2008	2009	Total
14	10	10	8	7	8	57



Piney Branch HIA: Planned Improvements

Talk and standard for the standard with the standard standard standard for the standard stand

Improvement	MCDOT	MDSHA	Status
Short term improvements (0-6 months)			
–Fix pedestrian push buttons	X		Done
-Repair streetlights and bus shelter lights	X		Done/In Progress
-Trim foliage		X	Done
–Enhanced signing		Х	Done
-Re-stripe / modify crosswalks		X	Done/In Progress
–Enact turn restrictions		X	In Progress
–Modify signal timing	X	X	Done
Mid term improvements (6-18 months)			
–Pedestrian refuge islands	X	X	In Progress
–Extending median	X	X	In Progress
–Enhanced / additional lighting	X		In Progress
–Install pedestrian buffers – fences		X	In Progress
–Minor sidewalk enhancements	X	X	Done/In Progress
-Traffic enforcement & education	X		Ongoing
Long term improvements (18+ months)			
-Relocating / modifying business access points		X	Pending
-Major sidewalk enhancements	X	X	Done/In Progress
–Reconstruct / modify traffic signals			Done/In Progress



[•] Done/In Progress = At least one but not all projects completed





High Incidence Areas: Wisconsin Avenue

Background

- Wisconsin Ave from Montgomery Ave to Leland Ave in Bethesda CBD
- PRSA conducted in Dec 2008

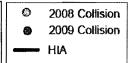
Observations

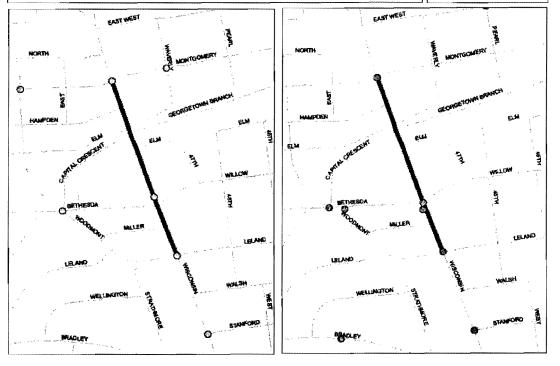
- Drivers at fault in most crashes
- Crashes mostly at intersections
- Most crashes involved turning vehicles
- High concentration at Montgomery Ave





2008 and 2009 Pedestrian Collision Comparison In and Around the Wisconsin Avenue HIA





2004	2005	2006	2007	2008	2009	∦Total :
8	6	6	10	3	4	37





Improvement MCDOT **MDSHA Status Short term improvements (0-6 months)** - Upgrade signing X X **Done/In Progress** X - Re-time pedestrian signal clearance times In Progress X - Re-stripe worn markings **Done/In Progress** X Done - Relocate trash cans / newspaper boxes Mid term improvements (6-18 months) - Upgrade/ add street lighting X In Progress X - Relocate crosswalks / ramps X In Progress X X - Upgrade to countdown pedestrian signals In Progress - Modify corner radii X In Progress -Traffic enforcement X **Ongoing** X In Progress -Pedestrian education program Long term improvements (18+ months) - Reconstruct traffic signal X X **Pending** X - Reconstruct Montgomery Ave. Intersection X Pendina X - Widen sidewalks X **Pending**

- Work to be completed as part of current SHA projects
- Done/In Progress = At least one but not all projects completed





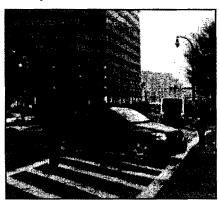
High Incidence Areas: Georgia Avenue

Background

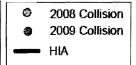
- Georgia Avenue from to Spring Street to Sligo Avenue in Silver Spring CBD
- PRSA conducted in March 2009

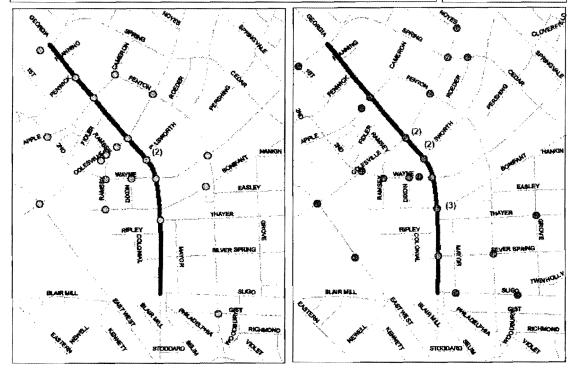
Observations

- Primary conflicts are between crossing pedestrians and turning vehicles
- Both drivers and pedestrians fail to obey traffic rules



2008 and 2009 Pedestrian Collision Comparison In and Around the Georgia Avenue HIA





2004	2005	2006	2007	2008	2009	Total:
13	4	7	5	7	10	46 +





Improvement	MCDOT	MDSHA	Status
Short term improvements (0-6 months)			
-Removing sidewalk obstructions	X		Done
–Repair streetlights and bus shelter lights	X		Done/In Progress
-Trim foliage		X	Done
–Enhanced signing		X	In Progress
–Re-stripe / modify crosswalks		X	In Progress
–Enact turn restrictions	X	X	In Progress
Mid term improvements (6-18 months)			
-Install curb extensions	X	X	In Progress
–Extending median		Х	In Progress
–Enhanced / additional lighting	X		In Progress
–Upgrade to countdown pedestrian signals		X	In Progress
-Minor sidewalk enhancements	X	X	In Progress
–Pedestrian education program	X		Ongoing
-Traffic Enforcement	X		Ongoing
Long term improvements (18+ months)			
-Relocating / modifying business access points	X	X	In Progress
-Major sidewalk enhancements	X	X	In Progress
–Reconstruct / modify traffic signals		Х	In Progress

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- · Work to be completed as part of current SHA projects
- Done/In Progress = At least one but not all projects completed





Background

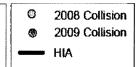
- Rockville Pike from to Halpine Road to Hubbard Drive
- PRSA conducted in June 2009
- High incidents of collisions with seniors and bicyclists

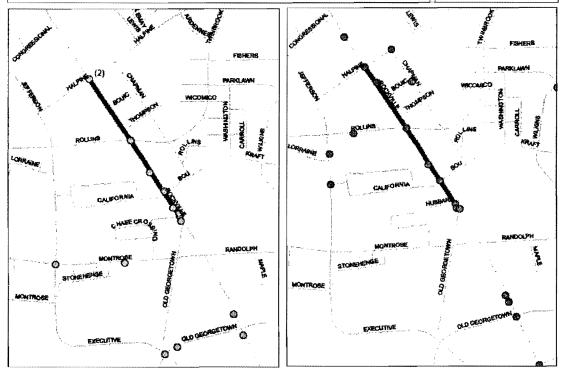
Observations

- Narrow sidewalks
- Multiple access points
- Long distance between controlled crossings



2008 and 2009 Pedestrian Collision Comparison In and Around the Rockville Pike HIA





2004	2005	2006	2007	2008	2009	Total
4	11	4	3	9	8	39





Rockville Pike HIA: Planned Improvements

Improvement	MCDOT	MDSHA	Status
Short term improvements (0-6 months)			
–Replace pedestrian push buttons		X	In Progress/Done
-Repair streetlights and bus shelter lights	X		In Progress
-Trim foliage		X	Done
–Enhanced signing	X	X	Done/In Progress
–Re-stripe / modify crosswalks	X	X	Done/In Progress
Mid term improvements (6-18 months)			
–Upgrade to countdown pedestrian signals	X	X	In Progress
–Extending curbs and median	X	X	In Progress/Done
–Enhanced / additional lighting	X		In Progress
–Minor sidewalk enhancements	X	Х	In Progress
-Traffic enforcement	X		Ongoing
–Pedestrian education program	X		In Progress
Long term improvements (18+ months)			
 Relocating / modifying business access points 		X	Pending
–Major sidewalk enhancements (widening)	X	X	Pending
–Reconstruct / modify traffic signals		X	Done/In Progress

- · Work to be completed as part of current SHA projects
- Done/In Progress = At least one but not all projects completed





High Incidence Areas: Four Corners

Background

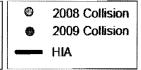
- Intersection of Colesville Road and University Boulevard
- PRSA conducted in Jan 2010
- Montgomery Blair HS

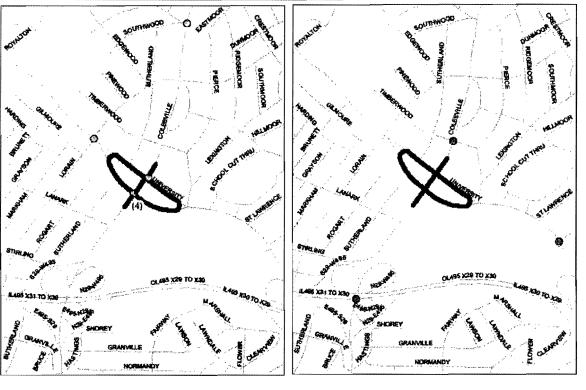
Observations

- Large student population
- Many pedestrians cross midblock
- Numerous commercial access points
- Heavy bus transit usage



2008 and 2009 Pedestrian Collision Comparison In and Around the Four Corners HIA





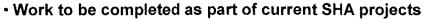
2004	2005	2006	2007	2008	2009	Total
2	4	4	7	5	0	22





Four Corners HIA: Planned Improvements

Improvement	MCDOT	MDSHA	Status
Short term improvements (0-6 months)			
-Repair streetlights and bus shelter lights	x		Done/In Progress
-Trim foliage		X	Done
–Enhanced signing		X	In Progress
–Re-stripe / modify crosswalks		X	In Progress
–Enact turn restrictions	X	X	In Progress
–School zone designation & signing	X	X	Done/In Progress
Mid term improvements (6-18 months)			
–Enhanced / additional lighting	x		In Progress
–Minor sidewalk enhancements	X	X	In Progress
–Upgrade to countdown pedestrian signals	X	X	In Progress
-Traffic enforcement & education	X		Ongoing
Long term improvements (18+ months)			
-Relocating / modifying business access points	X	X	Pending
–Major sidewalk enhancements	X	X	Pending
–Reconstruct / modify traffic signals	X	X	In Progress



[•] Done/In Progress = At least one but not all projects completed





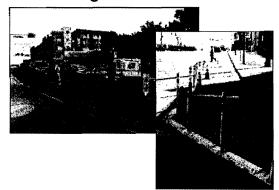
High Incidence Areas: Reedie Drive

Background

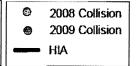
- Reedie Drive from Georgia Avenue to Veirs Mill Road in Wheaton CBD
- PRSA conducted in April 2010
- 1st County roadway PRSA

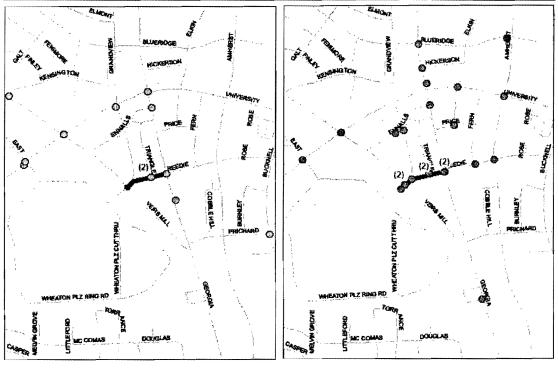
Observations

- Mid-block crossing encouraged by adjacent site layouts
- Numerous pedestrian/vehicle conflicts
- Many pedestrians cross at nondesignated locations



2008 and 2009 Pedestrian Collision Comparison In and Around the Reedie Drive HIA



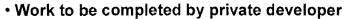


2004	2005	2006	2007	2008	2009	Total
4	2	0	3	3	7	194





Improvement	MCDOT	MDSHA	Status
Short term improvements (0-6 months) -Repair streetlights and bus shelter lights -Re-stripe / modify crosswalks -Improve drainage grates for cyclists	X X X	X	Done In Progress Done
Mid term improvements (6-18 months) -Enhanced / additional lighting -Upgrade audible pedestrian signal -Streetscape Improvements -Median extensions and pedestrian refuge areas -Traffic enforcement & education program	X X X	X X	In Progress In Progress In Progress In Progress In Progress
Long term improvements (18+ months) -Relocating / modifying business access points	x		Pending



[•] Done/In Progress = At least one but not all projects completed





High Incidence Areas: Randolph Road

Background

- Randolph Road from Colie Drive to Selfridge Road
- PRSA conducted in Sept 2010
- 2nd County roadway PRSA

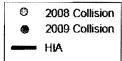
Observations

- Heavy pedestrian/bicycle demand and heavy transit usage
- Numerous pedestrian/vehicle conflicts
- Both drivers and pedestrians fail to obey traffic rules





2008 and 2009 Pedestrian Collision Comparison In and Around the Randolph Road HIA





ès:	Market State Control of the Control						
	2004	2005	2006	2007	2008	2009	Total
	3	3	2	1	4	4	17





High Incidence Areas: Total Expenditures

	Total Expenditures							
High Incidence Area	Expended / Encumbered			Additional	Additional Dollars Programmed*			
	Eng	Educ	Enf	Eng	Educ	Enf	Obligated to Date	
Piney Branch	\$239K	\$41K	\$48K	\$200K	\$9K		\$537K	
Wisconsin	\$115K	_	\$47K	-	\$50K		\$212K	
Georgia	\$72K		\$46K	\$130K	\$25K		\$273K	
Rockville	\$50K	_	\$37K	\$12K	\$25K	\$125 K **	\$124K	
Four Corners	\$59K	-	-	\$20K	\$25K		\$104K	
Reedie	\$54K	-	-	-	\$25K		\$79K	
Randolph			N/A		·		N/A	
Totals	\$589K	\$41K	\$178K	\$362K	\$159K	\$125K	\$1.33M + \$125K TBD =	
Totals		\$808K			\$646K		\$1.45 M	

Expenditures to date (as of 10/1/2010), includes studies, construction, education and enforcement.

^{•**}Distribution to be determined by Police Department



CountyStat

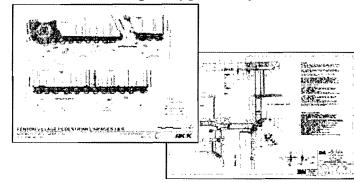
[·]Only reflects items for which decision to implement has been finalized

High Incidence Areas Strategy: DOT Successes and Lessons Learned

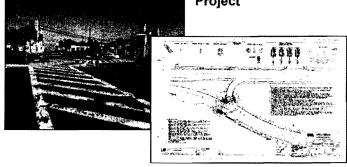
Successful Strategies

- Fostering Interagency and Inter-Departmental Partnerships
 - Retrofit improvements in anticipation of future SHA projects (i.e., countdown pedestrian signals)
 - Bring SHA on as an equal partner in the audit process and administration
- Leveraging Other Projects
 - Georgia Avenue Traffic Signal Upgrade / Fenton Village Streetscape Project
 - Piney Branch Road Traffic Signal Reconstruction
 - Potential developer funded projects (i.e., Reedie Drive median)

Fenton Village Streetscape / Georgia Ave Traffic Signal Upgrade Project



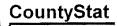
MD 193 West Crossover APS/CPS Upgrade
Project



MD 355 (Bethesda) CPS Upgrade Project





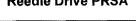


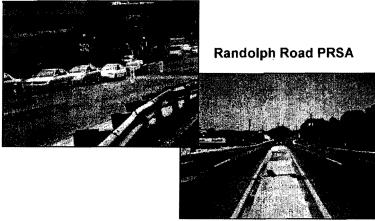


High Incidence Areas Strategy: DOT Successes and Lessons Learned Reedie Drive PRSA

Lessons Learned

- State Coordination is Paramount
 - County Improvements on State Roads =
 Longer Implementation Process
 - Additional administrative processes
 - Including SHA in the Process Promotes Early Consensus
 - Participation in Audits
 - Approval of observations and recommendations
- Addressing HIAs on County Roadways allows for quicker implementation











High Incidence Areas Strategy: DOT Successes and Lessons Learned

Lessons Learned

- Initial implementation timeframe was overly ambitious
 - The cost of all identified possible improvements at each HIA often exceeds the amount allocated
 - Needed to develop new processes to get things done
 - Leveraging other planned projects within the HIA often extends the process
 - Scope of the identified improvements is unique to every project
- Having designated staff is critical to implementation
 - Day-to-day coordination and program management is required to make progress in a timely manner
 - Coordination with SHA and other County Department
 - · Consultant contract management
 - Project Administration (agreements, design, construction)
 - Public Outreach



- Montgomery County's SRTS program started in 2005
- Over 50 schools have had comprehensive assessments conducted and improvements implemented
- More than 100 additional specific safety concerns have been evaluated and addressed



- Demonstrated success of reducing pedestrian collisions
- Focuses resources on demographic group that benefits most from improved pedestrian safety and mobility – all kids walk and bike





Safe Routes to School Priority Schools – Engineering Prioritization

	School	Number of Crashes
1	Flower Valley ES	0
2	Stone Mill ES *	1
3	Newport Mill MS	0
4	Earle B. Woods MS **	2
5	Kingsview MS *	1
6	Oakland Terrace ES	0
7	Rock Creek Forest ES	11
8	Bells Mill ES	3
9	Lucy V Barnsley ES	0
10	Woodlin ES **	1
11	Georgian Forest ES *	0
12	Jackson Road ES **	5

	School	Number of Crashes
13	South Lake ES	6
14	Belmont ES	0
15	E. Brooke Lee MS	0
16	Bradley Hills ES	1
17	John Poole MS	0
18	Rosa Parks MS *	0
19	Walter Johnson HS	3
20	Weller Road ES	2
21	Argyle MS **	8
22	Stonegate ES	0
23	Thurgood Marshall ES *	0
24	Westbrook ES **	0





Safe Routes to School Priority Schools – Pedestrian Collision Prioritization

	School	Number of Crashes
1,	New Hampshire Estates ES	37
2	Bethesda ES	33
3	Gaithersburg ES	12
4	Argyle MS**	8
5	White Oak MS	8
6	Olney ES*	6
7	South Lake ES	6
8	Oak View ES	6
9	Rolling Terrace ES	6
10	Jackson Road ES**	5
11	Harmony Hill ES	5
12	Eastern MS	5

	School	Number of Crashes
13.	A. Mario Loiederman MS	5
14	Stedwick ES	5
15	Rock Creek Forest ES	4
16	Glen Haven ES	4
17	Greencastle ES	4
18	Rosemont ES	4
19	Bells Mill ES	3
20	Montgomery Village MS	3
-21	Neelsville MS	3
22	Ronald A. McNair ES	3
23	Montgomery Knolls ES	3
24	Forest Knolls ES	3

Education: 11 schools previously designated in grant + schools identified as having ped collisions within 1/4 mile of school



*SRTS Grant B Funded

**SRTS Grant C Funded

10/12/2010



ENGINEERING: Reprioritized to weight pedestrian collisions

- Weighted scores with pedestrian collisions used to prioritize schools
- Factored into engineering evaluation criteria for overall score
- Safe Routes to School (SRTS) list reprioritized using crash data weighting factor

SRTS Grant Applications now reflect reprioritization



EDUCATION: Increased at schools with high ped collisions

- SRTS Coordinator working with 109 Elementary Schools and 31 Middle Schools
- SRTS Coordinator placing highest priority on schools with ped collisions within 1/4 mile

ENFORCEMENT: Increase at schools with high ped collisions

Enforcement actions targeted at schools with higher number of ped collisions





Safe Routes to School: Collision Update

	Before Trea	tment	After treatment*		
School Name	Time period	# of ped collisions	Time period	# of ped collisions	
Stone Mill ES	3/2006 – 3/2009	2	10 mos.	0	
Olney ES	2/2006 – 2/2009	1	11 mos.	1	
Georgian Forest ES	3/2006 – 3/2009	6	10 mos.	0	
Kingsview MS	3/2006 – 3/2009	12	10 mos.	0	
Thurgood Marshall ES	3/2006 – 3/2009	1	10 mos.		
Martin Luther King MS	7/2006 – 7/2009	11	6 mos.	9 0	
Flower Hill ES	6/2006 - 6/2009	7	7 mos.		
Greenwood ES	4/2006 – 4/2009	2	9 mos.	0	
Rosa Parks MS	4/2006 – 4/2009	2	9 mos.	45 1	
Cannon Road ES	6/2006 – 6/2009	3	7 mos.	0	
Clearspring ES	4/2006 – 4/2009	1	9 mos.	0	
William B. Gibbs ES	9/2006 – 9/2009	2	4 mos.	0	
Total		50		2	

[•]Number of collisions as of December 2009. After treatment assessment period is still underway. All data has been supplied by the Department of Transportation and the Police Department.



CountyStat

Safe Routes to School: Engineering

School Zone Pedestrian Treatments Activities

	FY07	FY08	FY09	FY10	FY11	Total
Partial Assessments	19	25	21	16	4	85
Comprehensive Assessments	9	10	13	11	8	51
Improvements Implemented	28	35	34	19	0	116

35)

School Zone Pedestrian Treatments

Budget and Expenditures

	FY09	FY10	FY11
Budgeted	\$80,000	\$330,000	\$156,240
Expended	\$80,000	\$159,000 *	-



* Reduced due to savings plan and spending freeze



Safe Routes to School: Education and Enforcement

Education & Enforcement Activities						
FY09 - Outreach - Meetings held (School Administrator and Parent) FY10 - Outreach - Meetings held (School Administrator and Parent) 19						
FY09 - Schools Observed	34	FY10 - Schools Observed	7			
FY09 - Incentives Distributed	220	FY10 - Incentives Distributed	12,880			
FY09 - Citations Given	N/A	FY10 - Citations Given	163			



Education & Enforcement Budget and Expenditures							
FY09			FY10				
	Budget	Actual		Budget	Actual		
Education	\$47,724	\$47,396	Education	\$59,662	\$51,738		
Enforcement	\$7,362	\$1,078	Enforcement	\$11,616	\$8,850		



Successful Strategies

Involve public school transportation representative, principal, and safety officer in assessments

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- Prioritize schools with lowest safety scores
- Focus on effective short-term, small-scale improvements
- Developing working relationship between SRTS Coordinator and school officials leads to effective outreach to students and parents at individual schools

Lessons Learned

- Student drop-offs and pick-ups are a major contributor to safety concerns
- Improvements directly focused on the school provide benefits for the broader pedestrian population



Traffic Calming: Collisions Update

	Completion Date	Speeds (MPH)		
Project Name		Posted	Avg. Before	Avg. After
Connecticut Ave	July-07	40	48	
Aspen Hill Dr	May-08	30	35	34
Arcola Ave	Aug-08	30	42	
Fairland Rd	July-09	40	53	
Calverton Blvd	July-09	30	41	
Lockwood Dr	July-09	30	40	
Sligo Ave	Sept-09	30	34	31
Carroll Ave	Nov-09	25	33	27
Spartan Rd	Nov-09	30	40	
Dale Dr*	Aug-10	30	39	

Collisions 3 Years Before Treatment	Time period Since Treatment	Collisions Since Treatment	
10	2 yrs. 6 Months	3	
14	1 Year 8 Months	0	
3	1 Year 5 Months	0	
2	6 mos.	0	
1	6 mos.	.0	
0	6 mos.	0,	
1	4 mos.	1	
2	2 mos.	0	
TBD	2 mos.	0	
N/A	# mos.	N/A wassis	

•Dale Drive too recent for crash data collection



Speed decline >/= 5mph

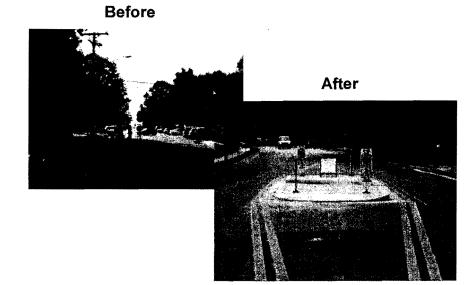
Pedestrian Safety #7 39 10/12/2010



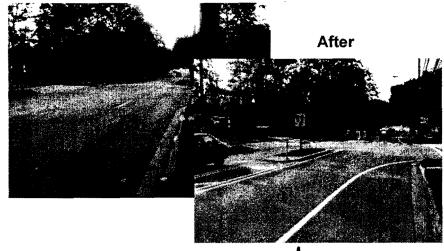
Traffic Calming: Typical Treatments

Typical Traffic Calming Treatments

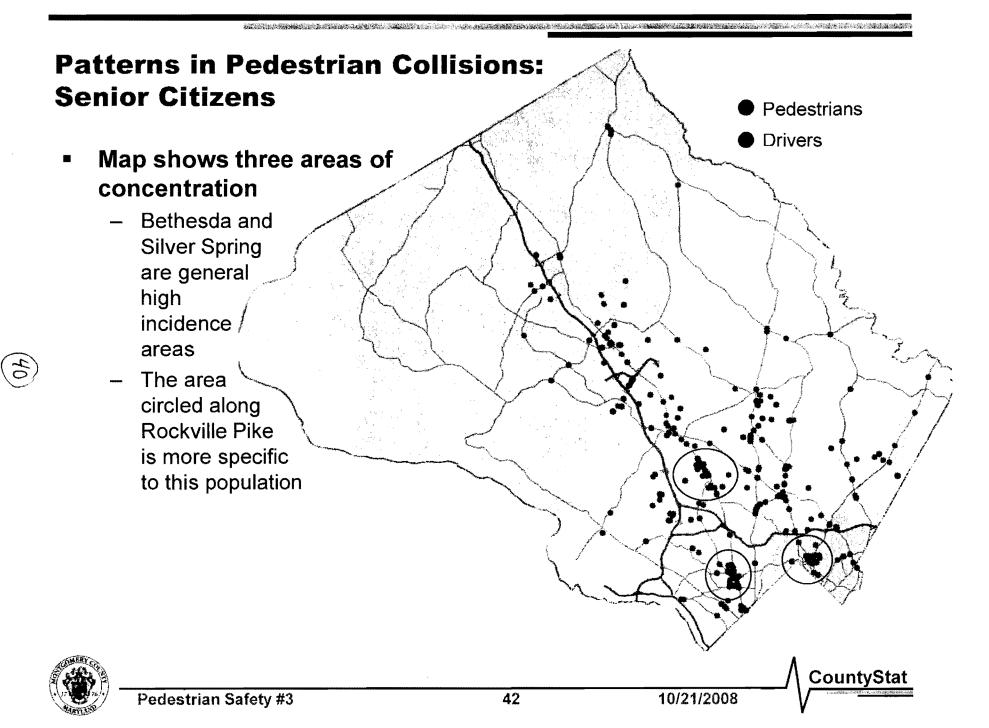
- Pedestrian Refuge Islands
- Bump-Outs / Curb Extensions
- Chicanes / Chokers
- Enhance signing and marking











Rockville Pike HIA

